

FIGURE 1

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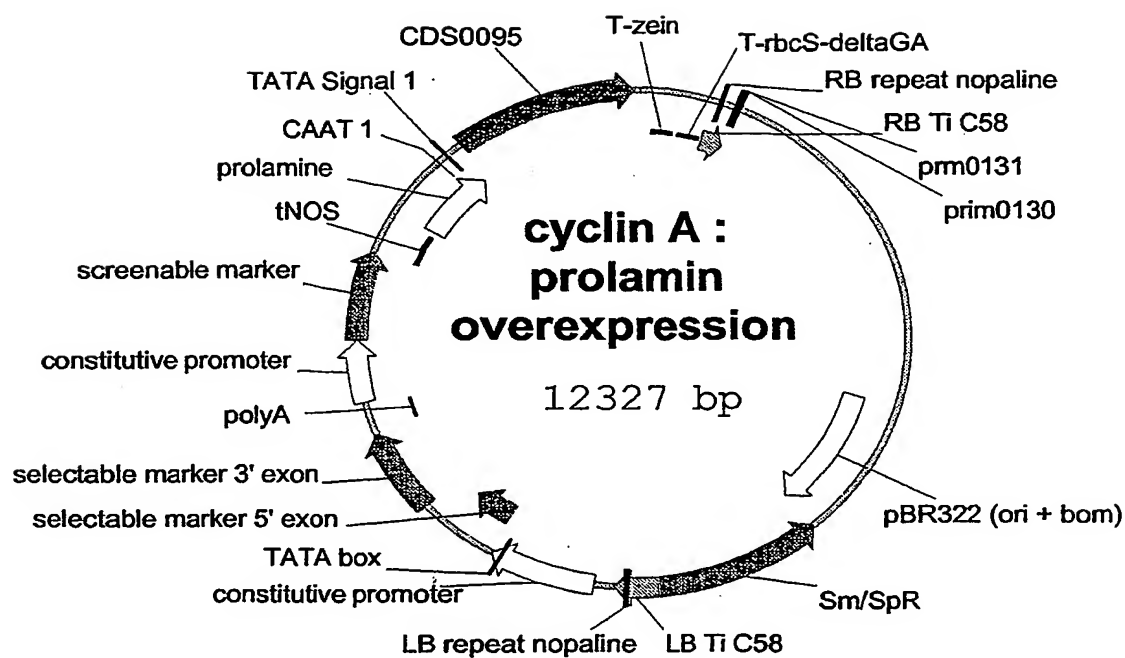


FIGURE 2

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| Gene name | Plant accession | Motif 1 | Motif 2 |
|------------------|-----------------------|------------------|------------------|
| Cyclin A2;1 | Arabidopsis At5g25380 | WLVEVSEEYKLVSDT | ELTLTEYTFRLFLPS |
| Cyclin A2;2 | Arabidopsis At5g11300 | WLVEVSDDYKLV PDT | ELTLVEYSFLRFLPS |
| Cyclin A2;3 | Arabidopsis At1g15570 | WLVEVSEEYTLASDT | ELTLIDYHFLKFLPS |
| Cyclin A2;4 | Arabidopsis At5g43080 | WLVEVSEEYTLV PDT | ELTLM DYPFLKFLPS |
| Cyclin A2type | Rice AK106653 | WLVEVSEEYKLV PDT | ELTLIDYSFLKFLPS |
| Cyclin A2type | Medicago AAK81695 | WLVEVSEGYKLQANT | ELTLMNYGFLNFLPS |
| Cyclin A2 type | Nicotiana BAA09367 | WLVEVSEEYRLV PDT | ELTLVDYGFLKFLPS |
| | | | |
| Cyclin A1;1 | Arabidopsis At1g44110 | WLIEVSEEYRLVPET | ELSLLEYTMLSHSPS |
| Cyclin A1;2 | Arabidopsis At1g77390 | WLVEVAEEYRLSPET | ELSLLDYAMLRYAPS |
| | | | |
| Cyclin A3;1 | Arabidopsis at5g43080 | WLVEVAEEYKLLSDT | ELSM LDYQSVKFLPS |
| | | | |
| Cyclin A1.1 type | Rice BAA86628 | WLVEVAEEYRLV PDT | ELSLLEYNLLSYPPS |
| | | | |
| Cyclin B1;1 | Arabidopsis At4g37490 | WLIDVHVR FELNPET | ELGVMHYDTMIMFSPS |

FIGURE 3

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SEQUENCE LISTING

SEQ ID NO 01: DNA sequence of Cyclin A2;2 (A variant of the coding sequence of the sequence deposited under accession number NM_121168 contains a G instead of C on position 851 (boxed) and a T instead of C on position 1295 (boxed))

atgtattgctcttcttcgatgcatccaaatgcaaacaagaaaatatctctacttcagatgt
acaggagaggtttgtacgaataacgagatcacgagctaaaaagccatgggaaggaggtat
caatacctccaacaaaaccttcttttaaacagcaaaagagacgtgcagtacttaaggatgtg
agtaatacctctgcagatattattttattcagaacttcgaaagggaggcaacatcaaggcaaa
cagaaaatgtctaaaagagcctaaaaaagcagcaaaaggaaggtgctaacagtgccatggata
ttctggtagatatgcatacagaaaaatcaaaatttagcagaagatttgtccaagatcaggatg
gctgaagcccaagatgtctctctttcaaacctttaaagatgaagaaattactgagcaacaaga
agatggatcaggtgtcatggagttacttcaagttgtagatattgattccaacgtcgaagatc
cacagtgttgagcttgatgctgctgatataatgacaacatacatgttgagagcttcaa
caacgacccttggctaattatatggagcttgtgcagcgagatatcgaccagacatgagaaa
gattctgattgactggctttagaagtttctgacgactacaagctggttccagatacgcttt
accttacagtgaatcttatcgaccggtttctgtccaacagttacattgaaaggcaagactc
cagctccttggtgtctcttgcatgcttatagcttcaaaatatgaagagctttccgcaccagg
ggtggaggagttttgcttcattacggccaacacatacacaaagacCagaagtgtgagcatgg
agattcaaattctaaattttgtgcacttttagattatcggttctaccaccaaaccatttctg
aggcgggttcattaaagcagctcaagcttcgtacaaggtgcctttcattgaactggagtat
agcaaactatctcgccgaattgacactggtggaatatagtttcctaaggttctgccatcac
taattgctgcttcagctgttttcttagcccgatggacactcgaccaaactgaccatccttgg
aaccctactctgcaacactacaccagatatgaggtagctgagctgaagaacacagttctcgc
catggaggacttgagctcaacaccagtggtgtactctcgtgcccaccgtgagaaataca
accaaccaaagttaaagagcgtggcaagctgacatctcccaaacgagtcacatCactattc
tcaagatga

SEQ ID NO 02: protein sequence of Cyclin A2;2 (A variant of the sequence deposited under accession number NP_568248 contains an arginine instead of a proline on position 284 (boxed) and a phenylalanine instead of a serine on position 432 (boxed))

MYCSSSMHPNANKENISTSDVQESFVRITRSRAKKAMGRGVSIPPTKPSFKQOKRRRAVLKDV
SNTSADIIYSELRKGGNIKANRKCLKEPKKAAKEGANSAMDILVDMHTEKSKLAEDLSKIRM
AEAQDVSLSNFKDEEITEQQEDGSGVMELLQVVDIDSNVEDPQCCSLYAADIYDNIHVAELQ
QRPLANYMELVQRDIDPDMRKILIDWLVEVSDDYKLVPDTLYLTVNLIIDRFLSNSYIERQRL
QLLGVSCLMIASKYEELSAPGVVEEFCFITANTYTRPEVLSMEIQILNFVHFRLSVPTTKTFL
RRFIKAAQASYKVPFIELEYLANYLAEELTVEYSFLRFLPSLIAASAVFLARWTLQDTHPW
NPTLQHYTRYEVAELKNTVLAMEDLQNTSGCTLAATREKYNQPKFKSVAKLTSPKRVTSLE
SR

FIGURE 4

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SEQ ID NO 03: DNA sequence of the prolamin promoter

cttctacatcggccttaggtgtagcaacacgactttattattattattattattattatt
atTTTacaAAAatataAAatagatcagtcacctcaccacaagtagagcaagttggtgagttat
tgtaaagttctacaaagctaattttaaagttattgcatctaacttatttcatattacaacaa
gagtgtcaatggaacaatgaaaaccatatgacatactataatTTTgtTTTTattattgaaat
tatataattcaaagagaataaatccacatagccgtaaagttctacatgtggtgcattaccaa
aatatatatagcttacaaaacatgacaagcttagtttgaaaaattgcaatccttatcacatt
gacacataaagtgagtgatgagtcataatatttttctttgctacctcatcatgtatatatg
atagccacaaagttactttgatgatgatatcaaagaacattTTTtaggtgcacctaacagaat
atccaaataatatgactcacttagatcataatagagcatcaagtaaaactaacactctaaag
caaccgatgggaaagcatctataaatagacaagcacaaatgaaaatcctcatcatccttcacc
acaattcaaataattatagttgaagcatagtagta

SEQ ID NO 04: primer sequence (primer PRM582)

ggggacaagtttgtacaaaaaagcaggcttcacaatgtattgctcttcttcgatgc

SEQ ID NO 05: primer sequence (primer PRM583)

ggggaccactttgtacaagaaagctgggtgcttggtgtcatcttgagaatag

FIGURE 4 (continued)